	Application No.	Applicant(s)
·	10/645,258	MATACOTTA ET AL.
Notice of Allowability	Examiner	Art Unit
	Jonas N. Strickland	1754
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT Re	(OR REMAINS) CLOSED in this ap or other appropriate communicatio GHTS. This application is subject	oplication. If not included in will be mailed in due course. THIS
1. This communication is responsive to the amendment filed of	o <u>n 8/30/2004</u> .	
2. ☑ The allowed claim(s) is/are <u>claims 1 and 11-14</u> .		
3. \boxtimes The drawings filed on <u>21 August 2003</u> are accepted by the	Examiner.	
4. Acknowledgment is made of a claim for foreign priority un a) □ All b) □ Some* c) □ None of the: 1. □ Certified copies of the priority documents have 2. □ Certified copies of the priority documents have 3. □ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	been received. been received in Application No. (cuments have been received in this communication to file a reply tent of this application.	s national stage application from the
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINE es reason(s) why the oath or declar	R'S AMENDMENT OF NOTICE OF ration is deficient.
 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the Total DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 	son's Patent Drawing Review (PTC s Amendment / Comment or in the .84(c)) should be written on the draw he header according to 37 CFR 1.12' sit of BIOLOGICAL MATERIAL	Office action of vings in the front (not the back) of 1(d). must be submitted. Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summar Paper No./Mail D 08), 7. ☐ Examiner's Amen	ate

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Allowable Subject Matter

- 1. Claims 1 and 11-14 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

Matacotta et al. discloses catalysts for the full oxidation of volatile organic compounds, particularly hydrocarbons, which comprises a compound having the formula $A_2B_3O_{6\pm d}$ where A is an alkaline-earth metal, an alkaline metal, a lanthanide, or a solid solution thereof and B is a transition metal (see abstract). Matacotta continues to disclose wherein A may be chosen from a Sr solid solution and B may be copper (p. 2, lines 18-24). The catalyst shows a surface area of 116 m²/g (p. 8, lines 10-13). While, Matacotta does not disclose a compound corresponding to the formula $A_{14}Cu_{24}O_{41}$, Matacotta et al clearly teaches wherein it is known in the art to use an active compound comprised of Sr, Cu, and O in treating hydrocarbons.

McCarron et al. teaches a superconductor byproduct having the formula $Sr_{14}Cu_{24}O_{41} \mbox{ (see abstract)}.$

Aufdembrink et al. teaches ternary oxide phases, including copper oxide, which are superconductors are employed in catalytic processes, such as treating hydrocarbons. The ternary oxide phases include La-Sr-Cu (see abstract and col. 1, lines 5-25).

The cited prior art fails to disclose a method of preparing $Sr_{14}Cu_{24}O_{41}$ and $Ca_4Cu_5O_{10}$ under the process conditions as instantly claimed. The prior art fails to disclose the molar concentration of the aqueous solution as well as the heating temperatures as instantly claimed.

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Instant claim 1 recites wherein the catalyst comprises 5% to 20% by weight of the non-crystalline compound, which corresponds to A₁₄Cu₂₄O₄₁, where A is Sr and B₄Cu₅O₁₀, where B is Ca. The cited prior fails to teach the instantly claimed weight ratio. Nakatsuji et al. (US Patent 5,380,692) discloses a catalyst comprised of La, Sr, Cu, and O in the weight range of 0.1 to 70% by weight (col. 6, lines 33-39), but Nakatsuji et al. is geared towards reducing nitrogen oxides and is not directed towards reducing VOC's.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonas N. Strickland whose telephone number is 571-272-1359. The examiner can normally be reached on M-TH, 7:30-5:00, off 1st Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Jonas N. Strickland September 29, 2004

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